

Amdt. dated January 30, 2004

Reply to Office Action of July 30, 2003

REMARKS/ARGUMENTS

Claims 1-15 and 17-20 are pending in this application. By this amendment, claims 1, 14, and 17-18 are amended, new claims 19-20 are added and claim 16 is canceled without prejudice or disclaimer.

Claims 17 and 18 stand rejected under 35 U.S.C. §101 and under 35 U.S.C. §112, second paragraph. These rejections are respectfully traversed. However, for the sole purpose of expediting the prosecution, claim 17 and 18 have been amended to a device claim. Hence, withdrawal of these two rejections is respectfully requested.

Claims 1-16 stand rejected under 35 U.S.C. §102(e) over Hosur et al. (U.S. Patent No. 6,356,605). This rejection is respectfully traversed.

Hosur et al. fails to disclose all the features and the combination thereof, as required under Section 102. For example, Hosur fails to disclose code sequences with the slot length of (2^l+1) where l is an integer greater than or equal to 1. Hosur et al. discloses 16 slot pilot patterns, which cannot equal to (2^l+1) . Since Hosur et al. fails to disclose or teach all of the features, withdrawal of this rejection is respectfully requested.

Further to the extent that Hosur et al. is applicable to claims 17 and 18, such a rejection is respectfully traversed. Claims 17 and 18 are also allowable since none of the cited references disclosed the specific first and second code sequences of 15 recited in claim 17.

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Amended claims 14 and new claims 19 and 20 are also allowable over Hosur et al. and other cited references. It is respectfully submitted that none of the references disclose selecting a first code sequence having a maximum autocorrelation value at a specific lay point or a correlation period and having a minimum correlation value at the other delay points excluding the specific delay points, and selecting a second code sequence having the same autocorrelation characteristic as the first selected code, wherein the first and second code sequences have maximum autocorrelation values at the same specific delay points and the combination thereof, as recited in independent claims 19, and selecting a first code sequence having a significant autocorrelation value at a matched point of a correlation period and having an insignificant autocorrelation value at the other points excluding the matched point and selecting a code sequence having the same autocorrelation characteristic as the first selected code sequence, wherein the first and second code sequences have a significant autocorrelation values having polarity opposite to said significant autocorrelation value at a specific delay point, and the combination thereof, as recited in independent claim 20.

As the Examiner may be aware, these claims correspond to the canceled claims of Application Serial No. 09/525,444 of which this application is a Continuation-In-Part. It is respectfully submitted that Hosur et al. cannot teach such features. For example, Table 3 of Hosur et al. corresponds to the same pilot symbol patterns of application Figure 8. As discussed in the specification, such pilot pattern

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symbols where previous symbols, which did not exhibit such features as recited in independent claims 19 and 20. The same applies to Tables 4-6 of Hosur et al. Hence, Hosur et al. cannot disclose or teach the features and the combination thereof, as recited in independent claims 14, 19 and 20.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, Daniel Y.J. Kim, at the telephone number listed below.

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

Serial No. 09/525,448

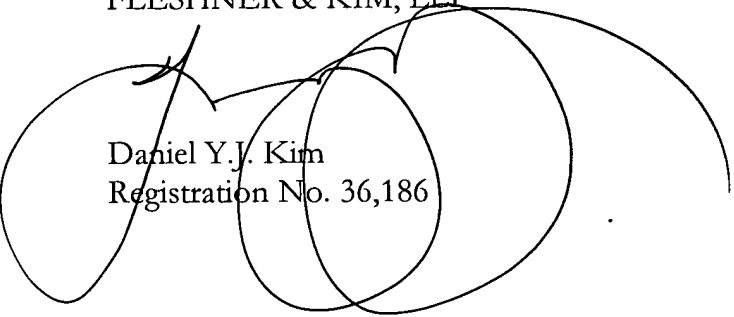
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To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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